

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002442**Date Inspected:** 05-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 9AW, Sub-Assemblies, OBG 9BW, OB**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 9BW

Internal base metal surfaces of the floor Side and Bottom Plate "T" Stiffeners and Lower Chevron Assemblies were initially abrasive blasted for VT inspection which was performed by Caltrans QA Larry Viars and mapped accordingly. Grinding of sharp edges and fins and burrs was followed by re-abrasive blasting base metal surfaces to an SSPC SP-10 condition and Interzinc 22 undercoat was applied. Profile amplitude was 76-80µm. Three inspections were performed prior to application of undercoat.

OBG 9AE

External undercoated surfaces were tested for adhesion and the following values obtained: 1) 16.82Mpa, 2)6.7Mpa, 3)14.05Mpa, 4)13.85Mpa.

OBG 9AW

Internal undercoated surfaces were tested for adhesion and the following values obtained: 1)9.13Mpa, 2)4.43Mpa, 3)9.66Mpa, 4)4.3Mpa.

Lift 7 East

The internal upper weld seam was abrasive blasted to base metal and an SSPC SP-10 condition, subsequent application of Interzinc 22 undercoat was delayed as the surface temperature at the time of inspection was 43°C at 14:00 Hours. Application was performed at 16:00 hours when the measured surface temperature was 37°C, profile amplitude was 74-81µm and chloride values were 20µs/cm.

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Sub-Assemblies

Base metal surfaces of the FL-3/Cross Beam termination bottom plate for OBG 7DW were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

OBG 9AW

Segment was relocated from Paint Shop #1 to an area behind workshop #14 today.

Office

Sort and organize project files and documentation.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans Engineer Aaron Prchlik called and inquired about the Galvanizing of the Traveler Rails. Caltrans QA Lumley informed Mr. Prchlik that the Traveler Rails were galvanized at an un-approved facility which had not been approved through the audit process as defined in Section 8 of the Special Provisions. Caltrans QA Lumley informed Mr. Prchlik to consult with Mahzen Wahbeh for details.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James
Reviewed By:	Peterson,Art

Quality Assurance Inspector

QA Reviewer